

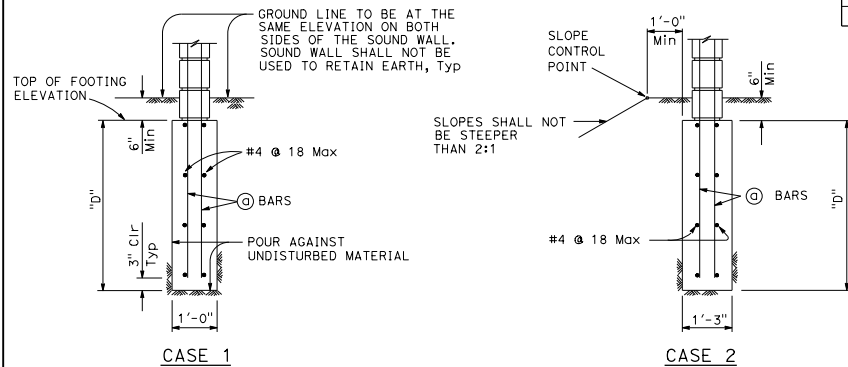
H=6'-0" THRU H=10'-0"

H=12'-0" THRU H=16'-0"

For details not shown, see H=6'-0" thru H=10'-0".

### TYPICAL SECTION

⊕ Full mortar bed at bottom of wall



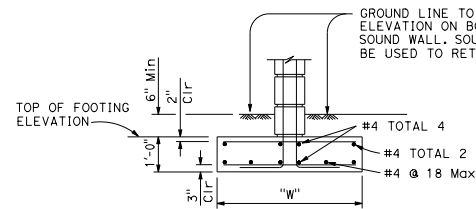
CASE 1

For details not shown, see Case 2.  
Level ground ( $\pm 10\%$ ) on both sides of the sound wall.

CASE 2

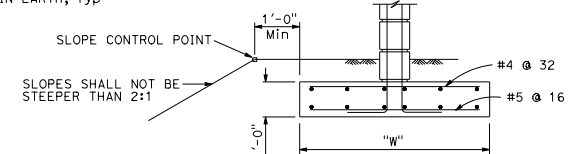
For details not shown, see Case 1.  
Level ground ( $\pm 10\%$ ) on one side of the sound wall and sloping ground on the opposite side.

### TRENCH FOOTING SECTION



CASE 1

For details not shown, see Case 2.  
Level ground ( $\pm 10\%$ ) on both sides of the sound wall.



CASE 2

For details not shown, see Case 1.  
Level ground ( $\pm 10\%$ ) on the traffic side of the sound wall and sloping ground on the opposite side.

### SPREAD FOOTING SECTION

### TRENCH FOOTING

MAXIMUM H	CASE 1		CASE 2		MAXIMUM H
	$\phi = 25$ Min	$\phi = 30$ Min	$\phi = 30$ Min	$\phi = 35$ Min	
6'-0"	5'-0"	4'-3"	3'-6"	6'-6"	6'-0"
8'-0"	6'-0"	5'-0"	4'-3"	7'-9"	8'-0"
10'-0"	6'-9"	5'-9"	5'-0"	8'-9"	10'-0"
12'-0"	7'-9"	6'-6"	5'-6"	9'-9"	12'-0"
14'-0"	8'-6"	7'-3"	6'-0"	10'-9"	14'-0"
16'-0"	9'-3"	7'-9"	6'-6"	11'-9"	16'-0"

Case 1 - Level ground ( $\pm 10\%$ ) on both sides of the sound wall.  
Case 2 - Level ground ( $\pm 10\%$ ) on traffic side of the sound wall and sloping ground on opposite side.

### SPREAD FOOTING

MAXIMUM H	W
6'-0"	3'-0"
8'-0"	4'-0"
10'-0"	5'-0"
12'-0"	5'-9"
14'-0"	6'-6"
16'-0"	7'-6"

### SOUND WALL REINFORCEMENT TABLE

MAXIMUM H	(a) BARS @ 1'-4" Max	(b) BARS @ 1'-4" Max	"y"	f'm (psi)	COMPRESSIVE STRENGTH OF CMU (psi)	MAXIMUM H
6'-0"	#4	—	—	1500	1900	6'-0"
8'-0"	#4	—	—	1500	1900	8'-0"
10'-0"	#4	—	—	1500	1900	10'-0"
12'-0"	#5	#4	6'-0"	1500	1900	12'-0"
14'-0"	#6	#4	8'-0"	1500	1900	14'-0"
16'-0"	#6	#4	10'-0"	2000	2800	16'-0"

### GENERAL NOTES:

- For type of block and joint finish, see other sheets.
- When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-9 gauge wires continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond and beams.
- Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.
- For intermediate wall heights that are between the "H"s given, use the tabular information for the next higher "H".
- Masonry strengths are listed in the "SOUND WALL REINFORCEMENT TABLE".

## SOUND WALL MASONRY BLOCK ON FOOTING DETAILS (1)

NO SCALE

B15-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
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